

UTILITY NOTES

- SEE GENERAL NOTES PLAN SHEET FOR ADDITIONAL NOTES.
- ALL WATER AND SEWER MATERIALS, CONSTRUCTION METHODS, AND INSTALLATION IS TO BE IN ACCORDANCE WITH THE LATEST VERSION OF THE TOWN OF BLACKSBURG'S STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE THE RELOCATION OF ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL MAINTAIN UTILITY SERVICE TO ALL EXISTING CUSTOMERS THROUGHOUT CONSTRUCTION AT ALL TIMES. THIS MAY REQUIRE TEMPORARY CONNECTIONS AND/OR RELOCATION OF EXISTING SERVICE LINES AND METERS, UNDER NO CIRCUMSTANCES SHALL UTILITY SERVICE BE INTERRUPTED WITHOUT PRIOR AUTHORIZATION FROM AND COORDINATION WITH THE UTILITY OWNER.
- ALL EXISTING MANHOLES, VALVE BOXES, METER BOXES, ETC. AFFECTED BY GRADING ACTIVITIES SHALL BE ADJUSTED TO FINAL GRADE.
- ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 4 FEET.
- CONTRACTOR SHALL CONFIRM THE ANGLES AT WHICH EXISTING SEWER LINES AND LATERALS CONNECT TO PROPOSED MANHOLES.
- CONTRACTOR SHALL VERIFY THE INVERTS AND PIPE SIZES OF ALL EXISTING SEWER LINES AND LATERALS CONNECTING TO PROPOSED MANHOLES.
- INVERT SHAPING IS REQUIRED ON ALL SANITARY SEWER MANHOLES.
- ALL BACKFLOW PREVENTERS SHALL BE INSTALLED INSIDE PROPOSED BUILDINGS IN ACCORDANCE WITH THE TOWN OF BLACKSBURG'S CROSS-CONNECTION CONTROL AND BACKFLOW PREVENTION REGULATIONS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. BACKFLOW PREVENTION DEVICES SHALL BE SUPPLIED BY THE OWNER.
- CONTRACTOR TO COORDINATE THE INSTALLATION/CONSTRUCTION OF OFF-SITE SANITARY SEWER IMPROVEMENTS TO BE INSTALLED/CONSTRUCTED BY THE TOWN OF BLACKSBURG.
- ALL PVS ARE TO BE INSTALLED ON EXTERIOR WALLS OF PROPOSED BUILDINGS DIRECTLY ABOVE FIRE SUPPRESSION LINE ENTRY POINT. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- WHERE SERVICE TAPS ARE MADE BELOW AN ELEVATION OF 2100 FEET THE PROVISIONS OF THE UNIFORM STATEWIDE BUILDING CODES ARE TO APPLY.
- ALL UTILITIES WILL BE VISUALLY INSPECTED BY THE TOWNS INSPECTOR PRIOR TO BACKFILLING TRENCHES OR AROUND MANHOLE STRUCTURES.
- THE CONTRACTOR SHALL PLUG WITH AN ANGLE WING NUT TEST PLUG THE CONNECTION OF PROPOSED TO EXISTING SANITARY SEWER PRIOR TO EXTENDING THE SANITARY SEWER. THE PLUG SHALL BE MAINTAINED IN PLACE UNTIL SUCH TIME AS THE SEWER IS COMPLETED, INSPECTED AND ACCEPTED BY THE TOWN. FAILURE OF THE CONTRACTOR TO APPROPRIATELY INSTALL AND MAINTAIN THIS PLUG SHALL CAUSE HIM TO BE LIABLE FOR ANY RESULTING BLOCKAGES OR REPAIRS TO THE EXISTING SEWER.
- ALL SANITARY SEWER LATERALS SHALL BE 6 INCH MINIMUM DIAMETER.
- ALL SANITARY SEWER AND LATERAL PIPE SHALL BE SDR-35 PVC.
- MINIMUM SANITARY SEWER LATERAL SLOPE SHALL BE 2%.
- ALL LOWEST FLOOR ELEVATIONS WILL BE SERVED BY GRAVITY SEWER.
- THE LOWEST FLOOR ELEVATION TO BE SERVED BY THE PROPOSED SANITARY SEWER IMPROVEMENTS IS 2091.93.
- ALL GREASE TRAPS SHALL BE A MINIMUM 1,000 GALLON AND H2O LOAD RATED. CONTRACTOR TO VERIFY GREASE TRAP SIZE WITH ARCHITECT PRIOR TO ORDERING / INSTALLING.
- EXISTING AND PROPOSED GROUND LINE ELEVATIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY MANHOLE DEPTHS AND LOCATIONS BY FIELD STAKING PRIOR TO ORDERING MATERIALS.
- THIS PROJECT DOES NOT LIE WITHIN A FEMA DESIGNATED 100-YEAR FLOODPLAIN.
- CONTRACTOR SHALL TRENCH GRAVITY SEWER AND WATER MAINS PER TOWN OF BLACKSBURG STANDARDS AND SPECIFICATIONS.
- SEWER LATERAL CONNECTIONS AT MANHOLES SHALL MATCH GROWNS WITH THE SEWER MAINS UNLESS OTHERWISE NOTED.
- PLUMBING SHALL CONFORM TO THE UNIFORM STATEWIDE BUILDING CODE AND ALL OTHER LOCAL CODES AND ORDINANCES.
- CHAMBERS OR PITS CONTAINING VALVES, BLOWOFFS, METERS OR OTHER APPURTENANCES TO THE DISTRIBUTION SYSTEM SHALL BE DRAINED TO THE SURFACE OF THE GROUND WHERE THEY ARE NOT SUBJECT TO FLOODING BY SURFACE WATER OR TO ABSORPTION PITS LOCATED ABOVE THE SEASONAL GROUNDWATER TABLE ELEVATION. SLUMP PUMPS MAY BE USED WHERE OTHER MEANS ARE NOT PRACTICABLE.
- ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND DO NOT REPRESENT ALL UNDERGROUND UTILITIES. PRIOR TO EXCAVATION AND BORINGS, THE CONTRACTOR SHALL CONTACT "MISS UTILITY" (1-800-562-7001) TO HAVE ALL UNDERGROUND UTILITIES LOCATED AND MARKED.
- REMOVAL AND DISPOSAL OF EXISTING STRUCTURES SHALL BE IN ACCORDANCE WITH SECTION 104.05 OF THE 2001 VDOT ROAD AND BRIDGE SPECIFICATIONS EXCEPT THE WORD ENGINEER SHALL BE CHANGED TO OWNER.
- EXISTING IMPROVEMENTS THAT ARE REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- THE TOWN WILL TAP EXISTING WATER LINES AND PROVIDE AND INSTALL THE METER AT THE OWNER'S EXPENSE. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING THE TOWN WITH THE PROPER METER INSTALLATION ELEVATION.
- TOWN WILL TAP EXISTING WATER LINES FOR MAIN EXTENSIONS OR LATERALS AT THE OWNER'S EXPENSE AND TOWN WILL PROVIDE THE METER AT OWNER'S EXPENSE.
- ALL WATERMAINS SHALL BE 8" CLASS 50 DUCTILE IRON PIPE.
- ALL DETECTOR CHECK VALVES SHALL BE 8" WITH ¾ METERS INSTALLED ON BY-PASS LINE. DETECTOR CHECK VALVES SHALL BE AMES SERIES 1000SS. METER SHALL BE ¾" SENSUS METERS.
- CONTRACTOR TO ENSURE THAT ALL EXISTING SANITARY SEWER LATERALS WHICH CONNECT TO EXISTING SANITARY SEWER LINES OR MANHOLES ARE FIELD LOCATED/MARKED AND RECONNECTED TO THE PROPOSED SANITARY SEWER LINES. IDENTIFICATION OF EXISTING LATERAL CONNECTION LOCATIONS MAY REQUIRE THE USE OF VIDEO EQUIPMENT.



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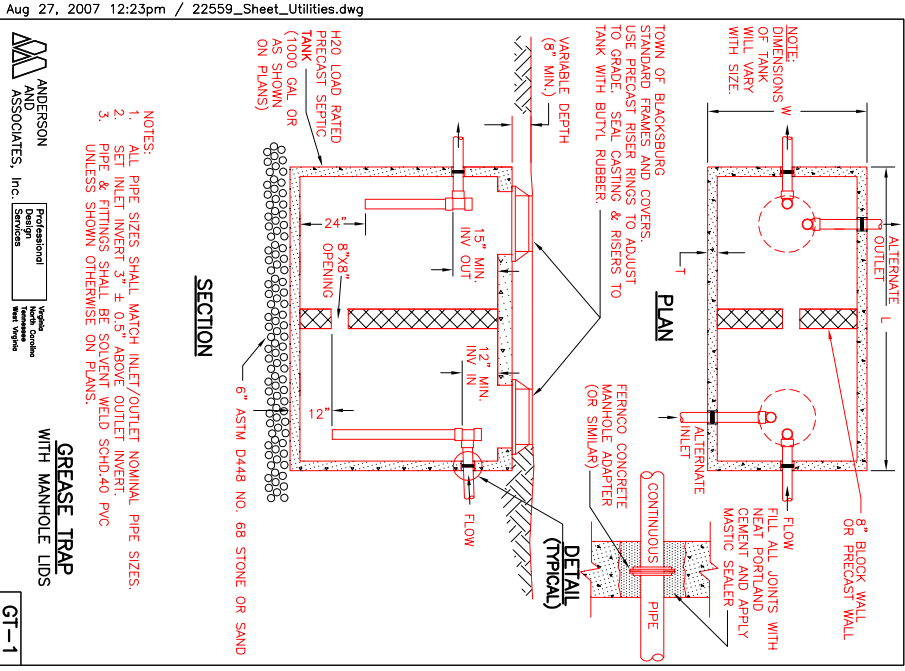
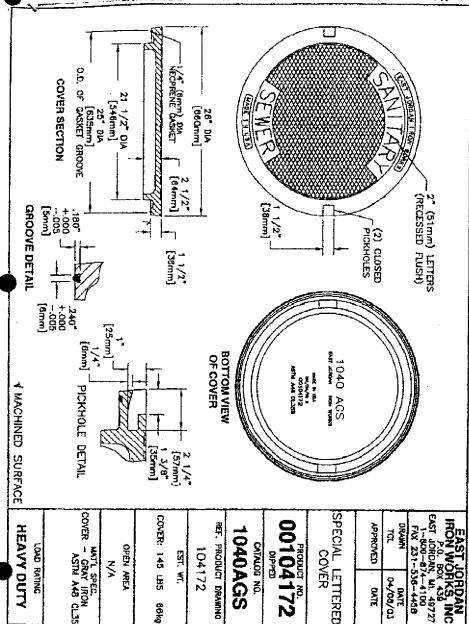
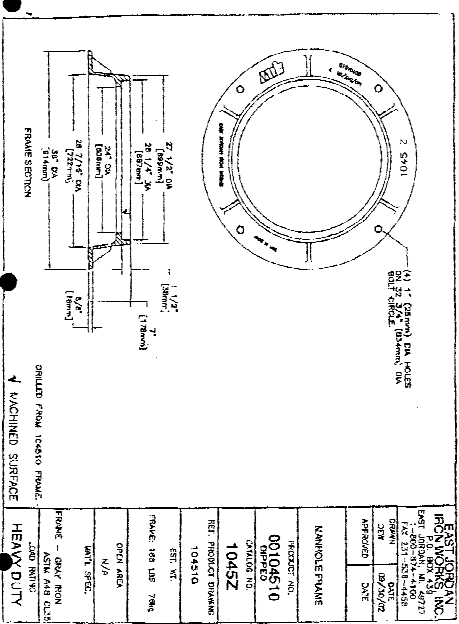
REV.# COMMENTS

DATE

FIRST & MAIN
PHASE 1
BLACKSBURG, VIRGINIA

UTILITY NOTES & DETAILS

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TOWN ENGINEER	DATE
TOWN PLANNER	DATE